

REMARKS

Claims 1-13 are pending in the instant application. No claims have been added. Claim 13 has been cancelled. Therefore, upon entry of the Amendment, claims 1-12 will be pending.

Drawings

Figure 3 has been objected to due to a misspelling of "HIERARCHICAL." Corrected drawing sheet is provided herewith. 37 C.F.R. §1.121(d) reads **emphasis added:**

(d) *Drawings*: One or more application drawings shall be amended in the following manner: Any changes to an application drawing must be in compliance with § 1.84 and must be submitted on a replacement sheet of drawings which shall be an attachment to the amendment document and, in the top margin, labeled "Replacement Sheet". Any replacement sheet of drawings shall include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is amended. Any new sheet of drawings containing an additional figure must be labeled in the top margin as "New Sheet". All changes to the drawings shall be explained, in detail, in either the drawing amendment or remarks section of the amendment paper.

(1) A marked-up copy of any amended drawing figure, including annotations indicating the changes made, **may** be included. The marked-up copy must be clearly labeled as "Annotated Sheet" and must be presented in the amendment or remarks section that explains the change to the drawings.

(2) A marked-up copy of any amended drawing figure, including annotations indicating the changes made, **must be provided when required by the examiner.**

The Examiner has required a marked-up copy. Therefore, a marked-up copy designated as "Annotated Sheet" is provided herewith.

Claim Objections

Claims 1-13 are objected to because of informalities. The informalities have been corrected.

While it is believed that the instant response places the application in condition for issuance, should the Examiner have any further comments or suggestions, it is respectfully requested that the Examiner contact the undersigned in order to expeditiously resolve any outstanding issues.

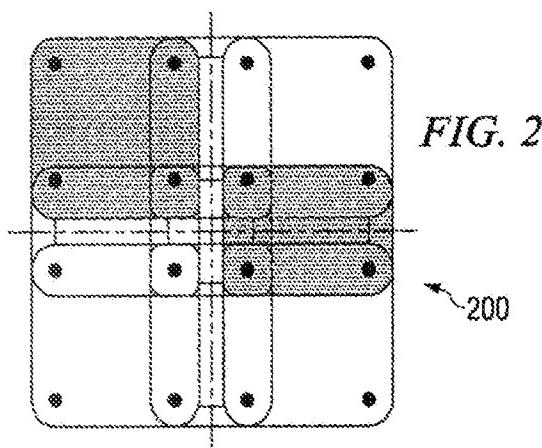
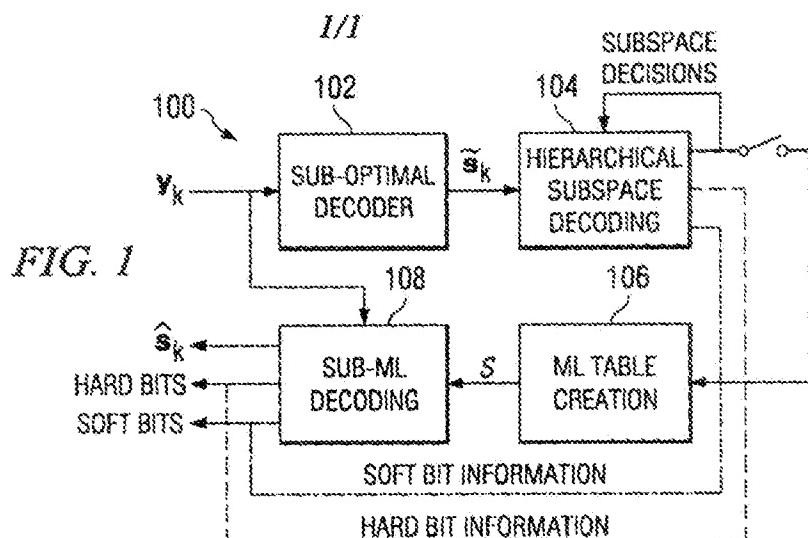
Respectfully submitted:
/Steven A. Shaw/

6/29/2007

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Date

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*FIG. 3*

E_b/N_0 (dB)	ORDERED IMMSE (BER)	HIERARCHICAL ML (4 ² VECTORS) (BER)	ML (BER)
-2	~0.08	~0.02	~0.05
0	~0.04	~0.01	~0.03
2	~0.02	~0.005	~0.02
4	~0.01	~0.002	~0.01
6	~0.005	~0.001	~0.005
8	~0.002	~0.0005	~0.002
10	~0.001	~0.0002	~0.001
12	~0.0005	~0.0001	~0.0005
14	~0.0002	~0.00005	~0.0002
16	~0.0001	~0.00002	~0.0001

HIERARCHICAL